



TRANSPORTATION ASSET MANAGEMENT

INTRODUCTION



The Alaska Department of Transportation & Public Facilities (DOT&PF) is responsible for a diverse range of equipment, facilities, and transportation assets, valued over \$6.3 billion.

DOT&PF has a complex transportation system unusual for a rural low population state, from several thousand miles of paved highway to an ocean-going ferry system, airports, and associated facilities. Alaskans depend on this system and have entrusted the department to design, maintain, safely repair and operate it efficiently. This is why the department is committed to Transportation Asset Management (TAM).

Transportation agencies must manage the improvements they construct for today's users, as well as preserve those assets for future generations. They must become as skilled at optimizing the lifecycle costs and overall performance of their transportation assets as they have traditionally been at engineering and building them. To benefit all travelers, this is DOT&PF's commitment to Alaska's system of highways, airports, and ferries.

MAP-21, the recently adopted federal law that authorizes America's federal transportation programs, directs the U.S. Department of Transportation, in consultation with state DOTs and others, to develop rules and establish performance measures and standards by the end of 2013. The law requires State DOTs to include asset management goals and policies in their long-range transportation plans, and implement effective asset management programs.

DOT&PF is in the initial phase of applying asset management practices for bridges and pavements. The department has short-term and long-term goals for TAM, which ultimately supports the vision to achieve a mature asset management program. TAM will not reach success overnight, but over time through organized and progressive steps.

DOT&PF's Transportation Assets

Highways

5,619 centerline-miles highway

Pavement

3,716 centerline-miles of paved highway; 2,563 acres of paved surfaces at 252 rural airports

Bridges

805 bridges; responsible for the inspection of 983 bridges

Airports

255 airports in the statewide aviation system; international airports in Anchorage and Fairbanks

Facilities

720 owned or leased facilities including 84 highway maintenance stations

Ports

25 harbor facilities and 33 marine highway terminals

AMHS

11 vessels operating on a 3,500 mile run

Fleet

3,500 vehicles and pieces of support equipment (welders, generators, etc.) including almost 1,100 pieces of heavy equipment such as loaders, graders, and 350 heavy-duty trucks

Road Info

45 Road Weather Information System (RWIS) cameras at 51 sites, 67 temperature data probes for seasonal weight restriction, 10 portable message boards for emergency operations, and 100 traffic counters for estimating the annual average daily traffic

Other

Inventories are underway for geotechnical data, culverts and signage (including street lights and road markings)

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